

## ***Interactive comment on “30 years of upper air soundings on board of R/V POLARSTERN” by Amelie Driemel et al.***

### **Anonymous Referee #1**

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General Comments: This manuscript does a great job detailing the 30 years dataset of upper air soundings on board of R/V POLARSTERN. The short article is an excellent source of metadata for those looking to use this dataset in the future. Section 3 was particularly useful due to the scientific examples, and the details about the data quality of the entirety of the dataset. The dataset will be particularly useful for Arctic and Antarctic researcher looking to study the upper atmosphere. It was great to be able to easily understand and find the dataset in PANGAEA. The data quality and the metadata in PANGAEA makes downloading pieces of the dataset effortless.

Specific Comments: 1. Section 3.4 doesn't seem unique and necessary in this kind of article. This might because I'm not too familiar with science data papers. Thus, I'm not certain that section is needed to support the thesis of this article.

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2. On page 3 line 11 there is a reference to the ECMWF links. I wasn't able to navigate that page to try and see what was being reference. Clarity with this link and explain would make the connection to forecast models and soundings stronger.

3. On page 3 line 17 there is mention about the how the parents contain all datasets of one cruise leg. Here might be a good location for add the number of cruises/parents in this dataset.

Technical Comments: 1. Table 1 caption change to “Overview of the radiosonde types on board POLARSTERN”

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